

## OVERALL MICROARRAY PROCESS

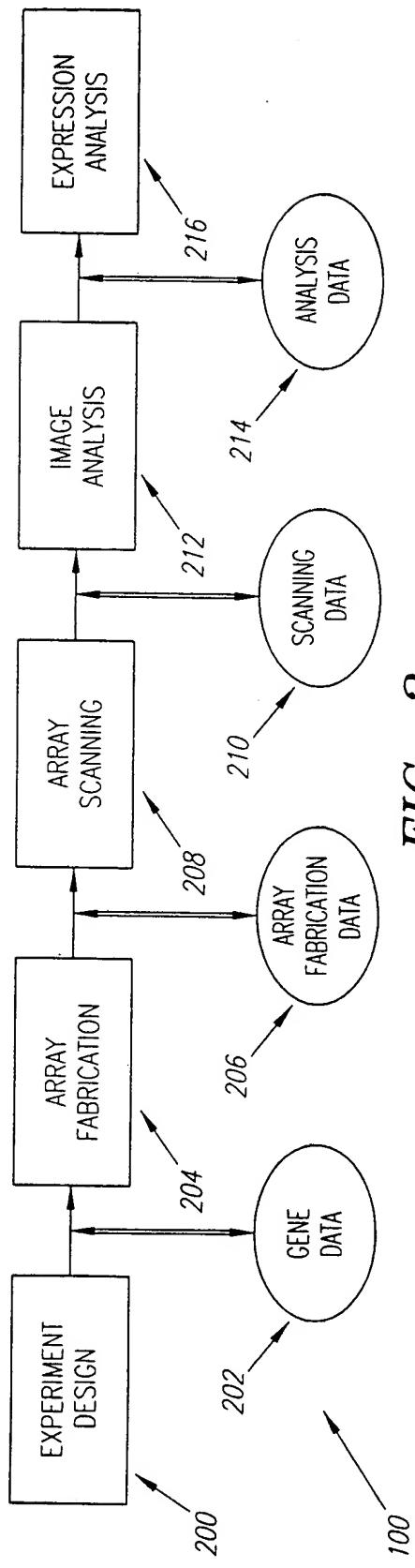


FIG. 2

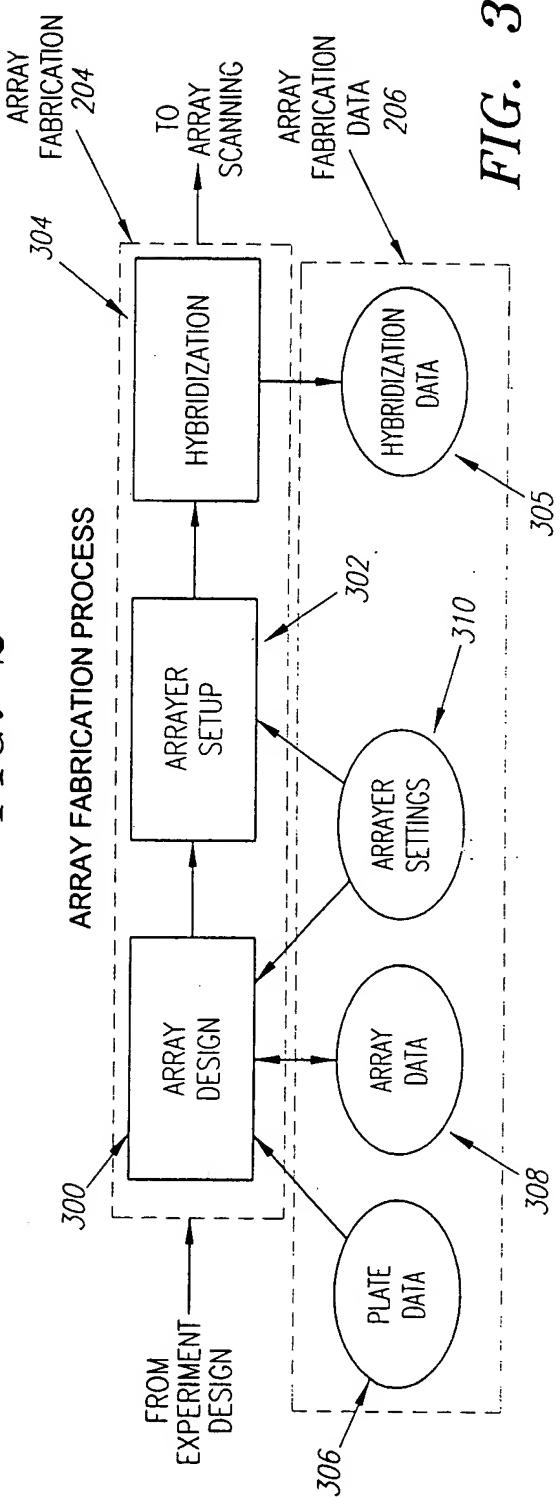


FIG. 3

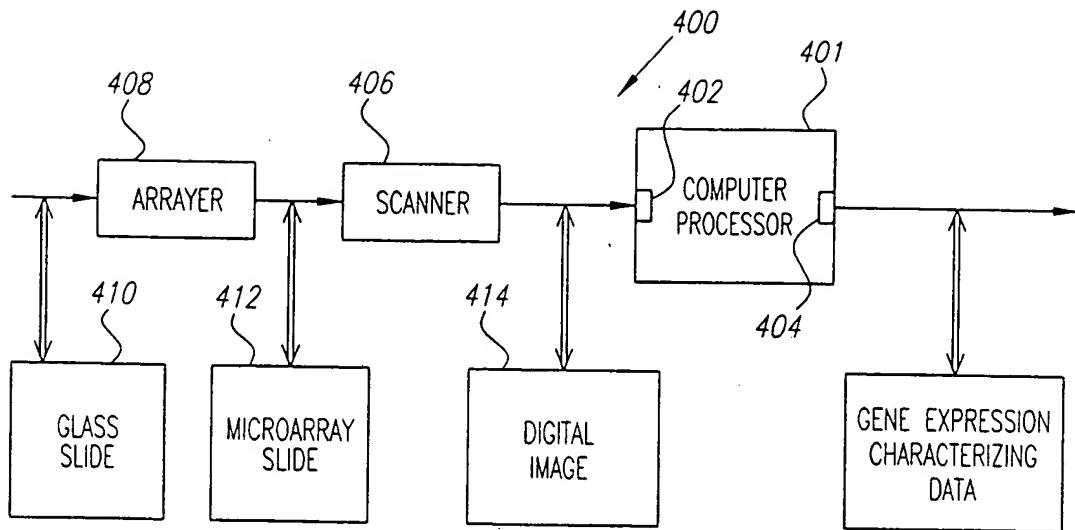


FIG. 4

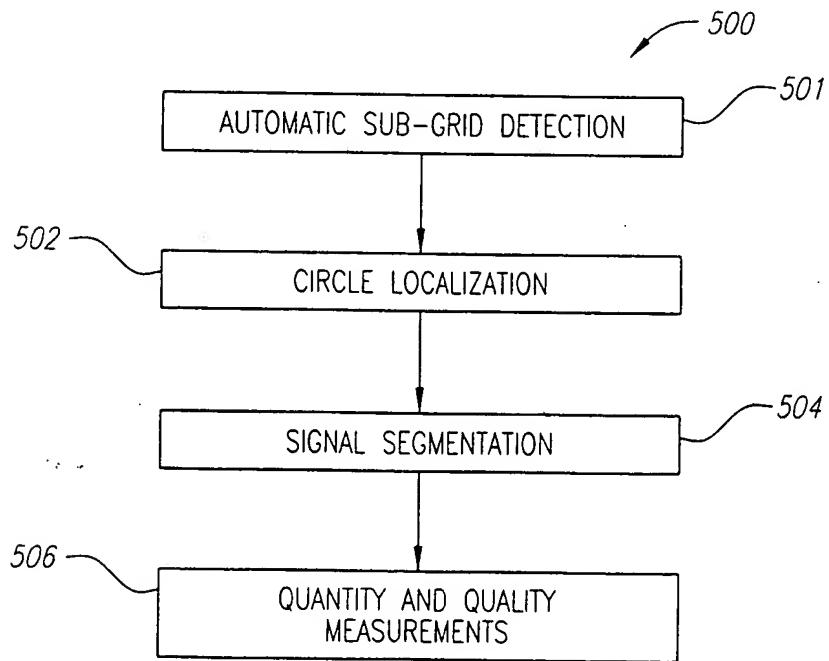
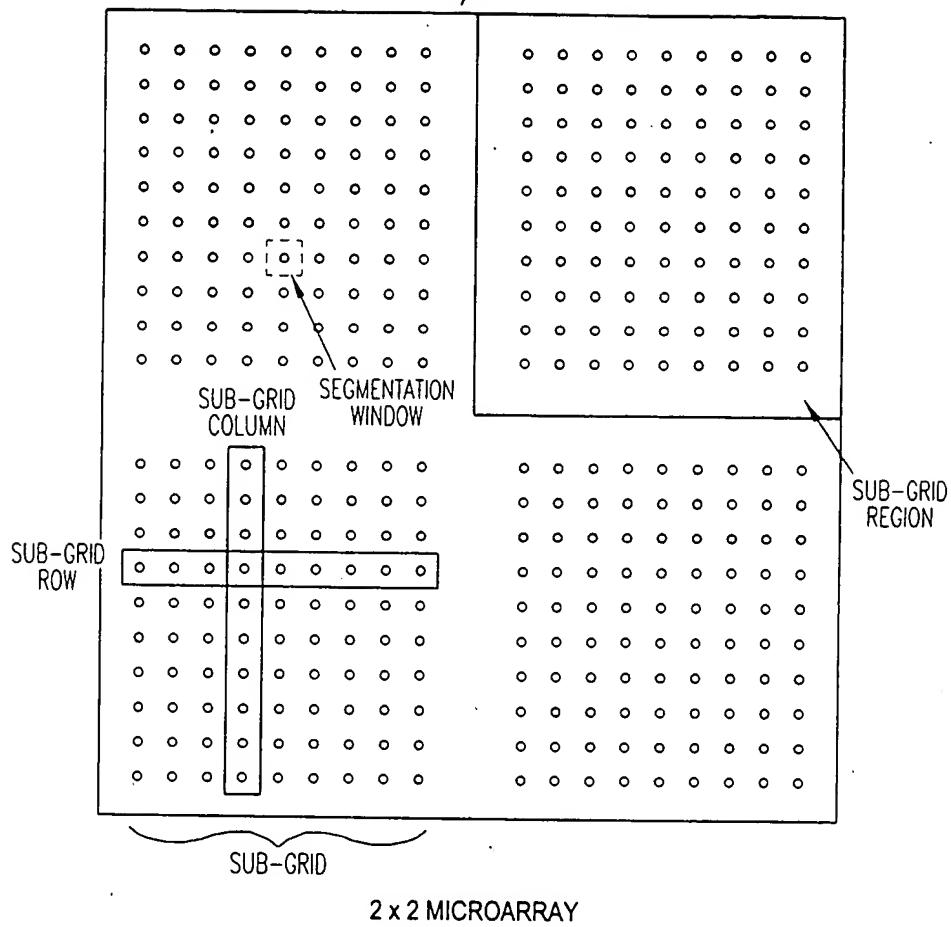
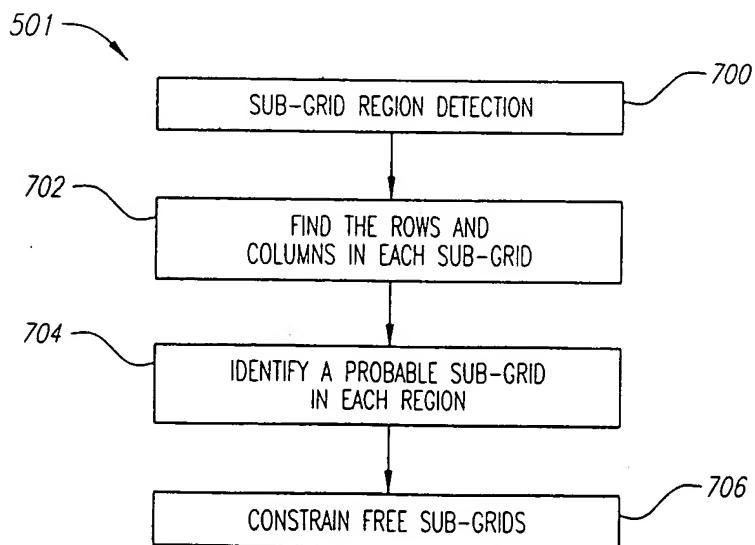


FIG. 5

*FIG. 6**FIG. 7*

## SUB-GRID REGION DETECTION

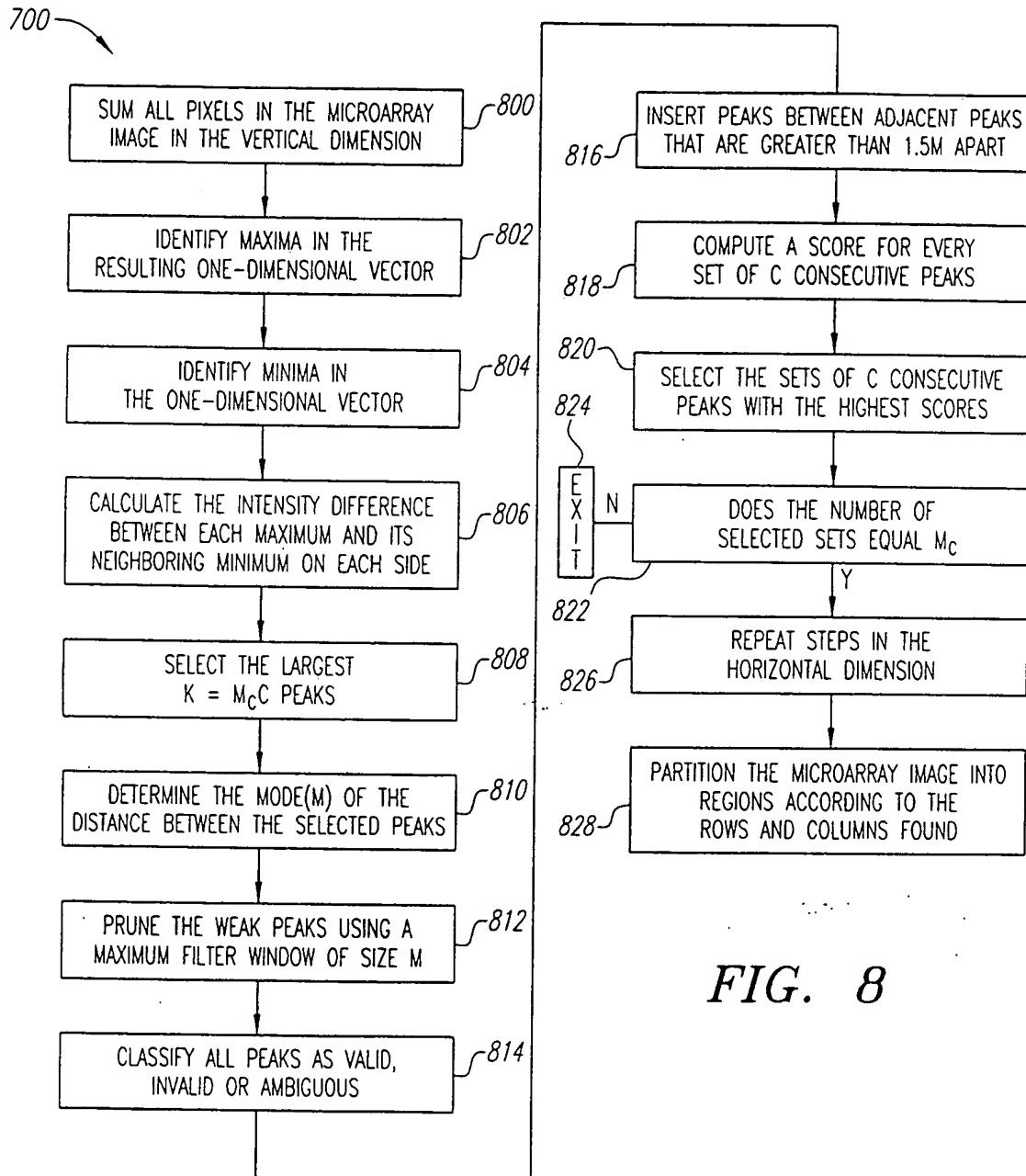


FIG. 8

## SUB-GRID ROWS AND COLUMNS DETECTION

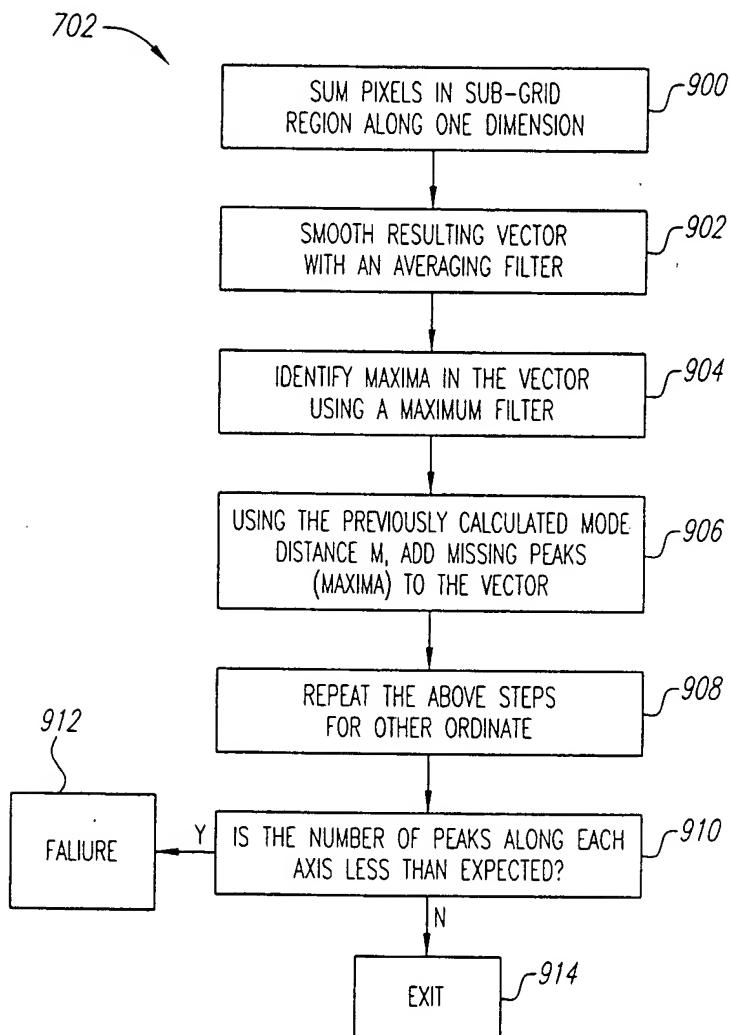


FIG. 9

## IDENTIFYING SUB-GRIDS IN EACH SUB-GRID REGION

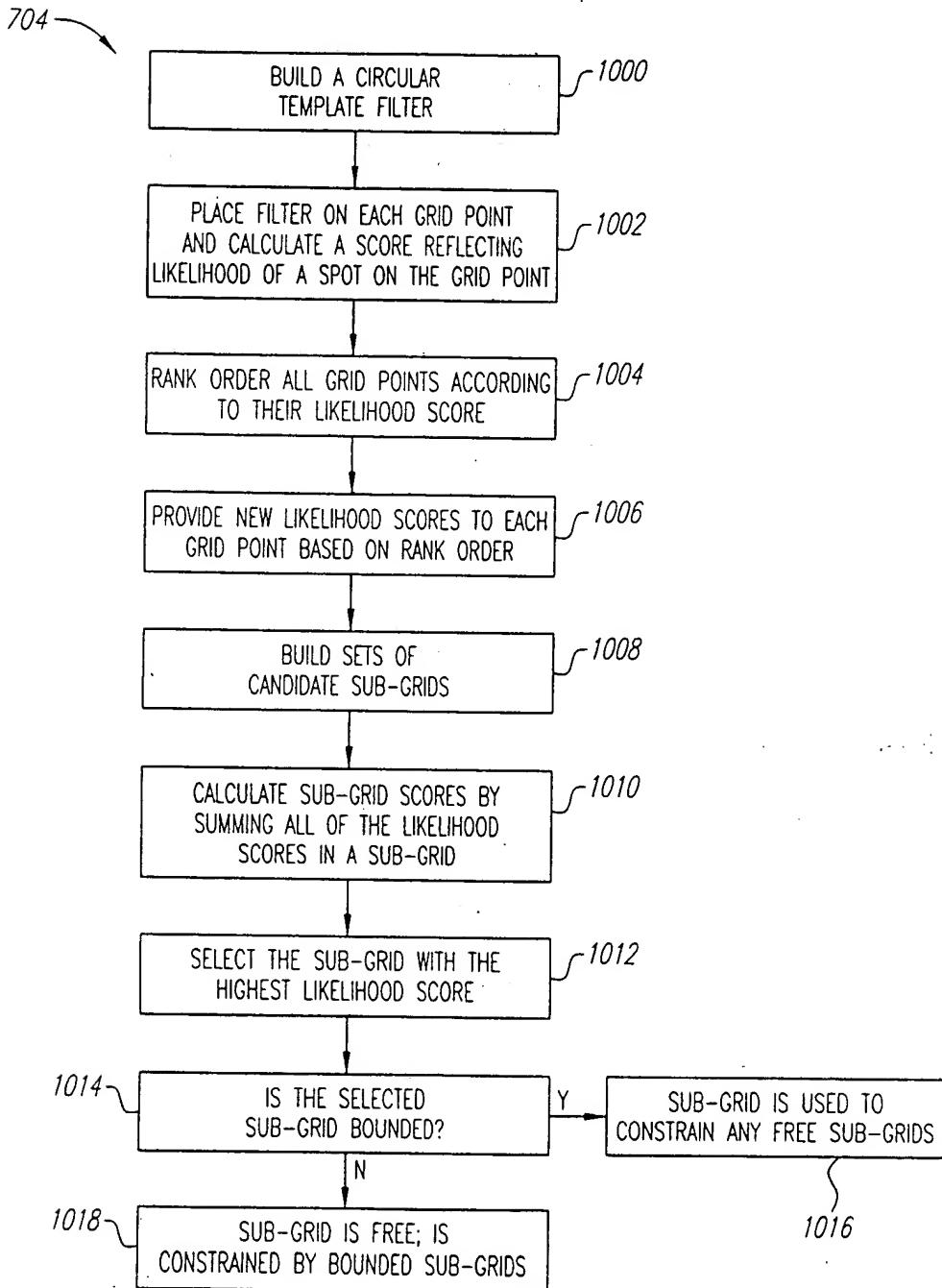
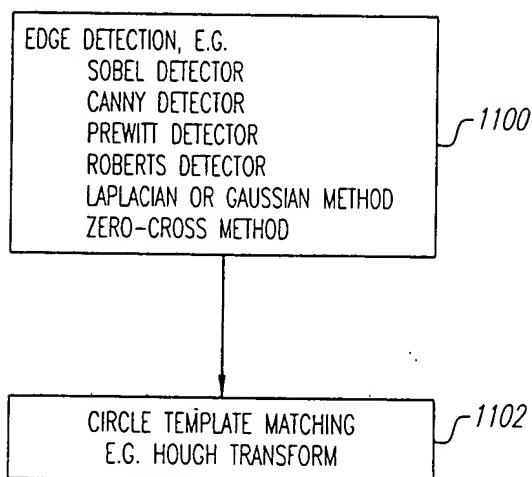


FIG. 10

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CIRCLE LOCALIZATION



*FIG. 11*

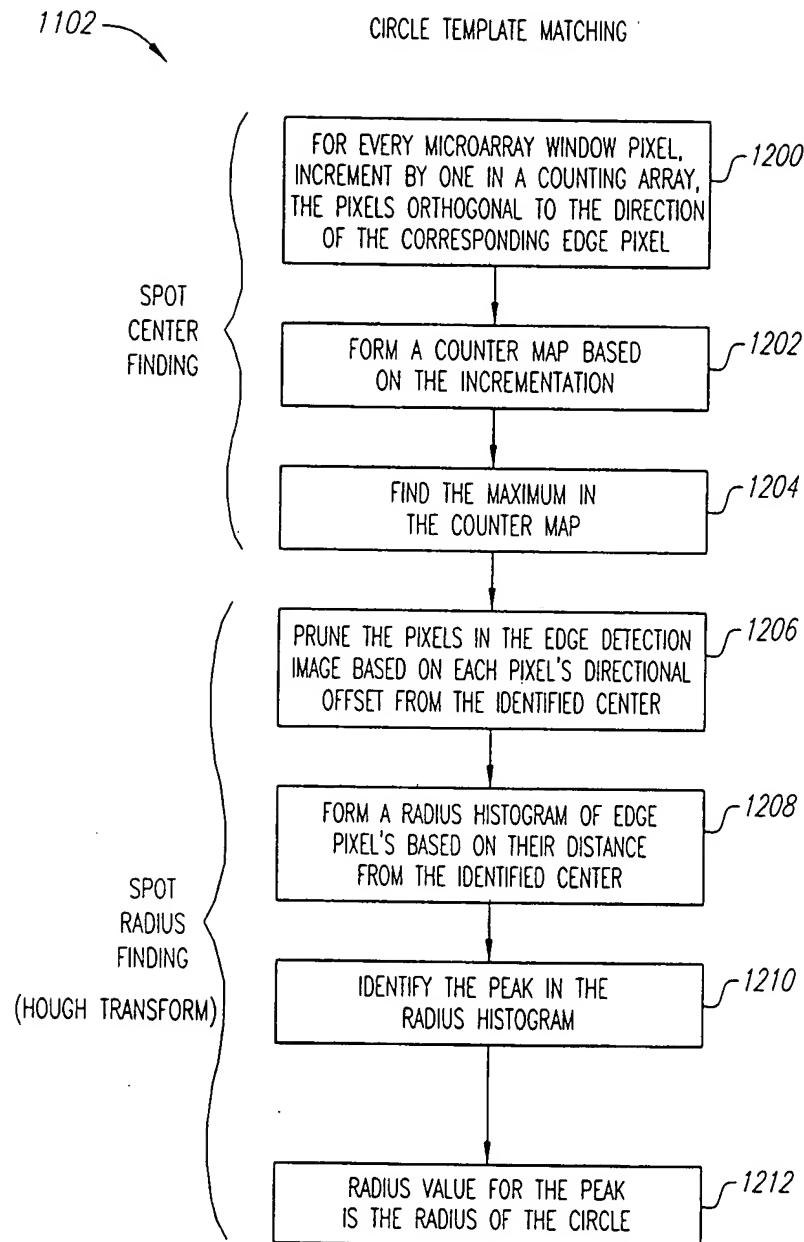
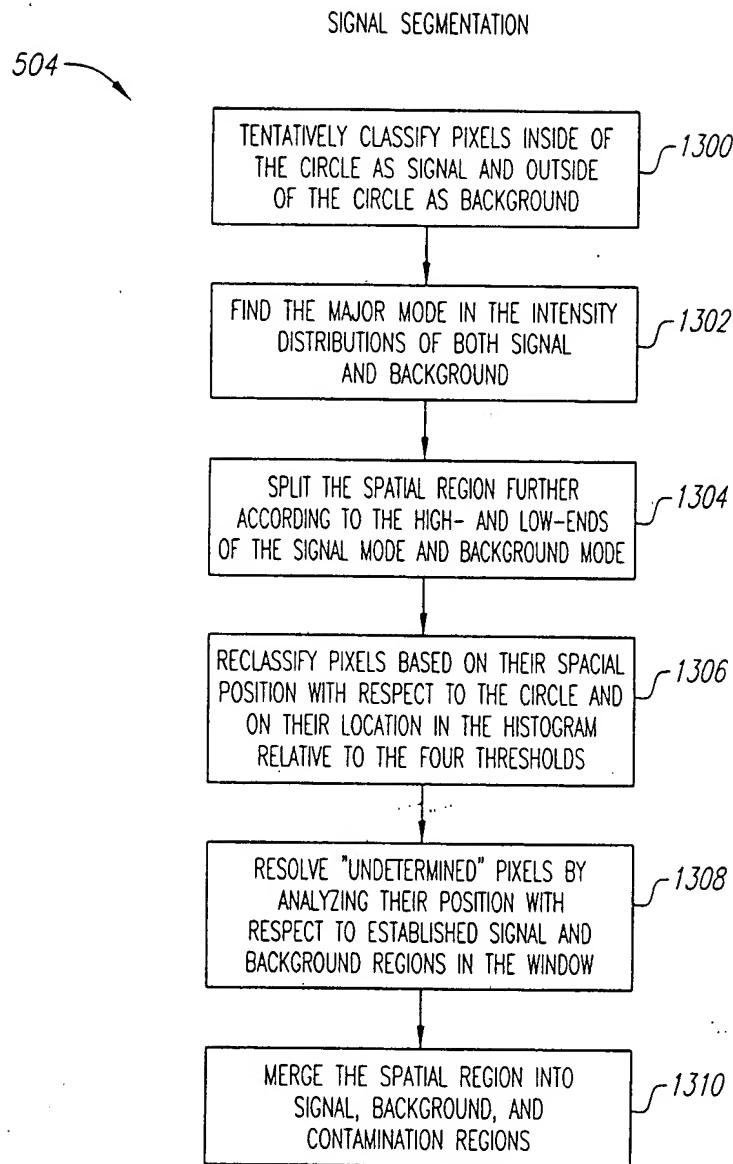


FIG. 12

*FIG. 13*

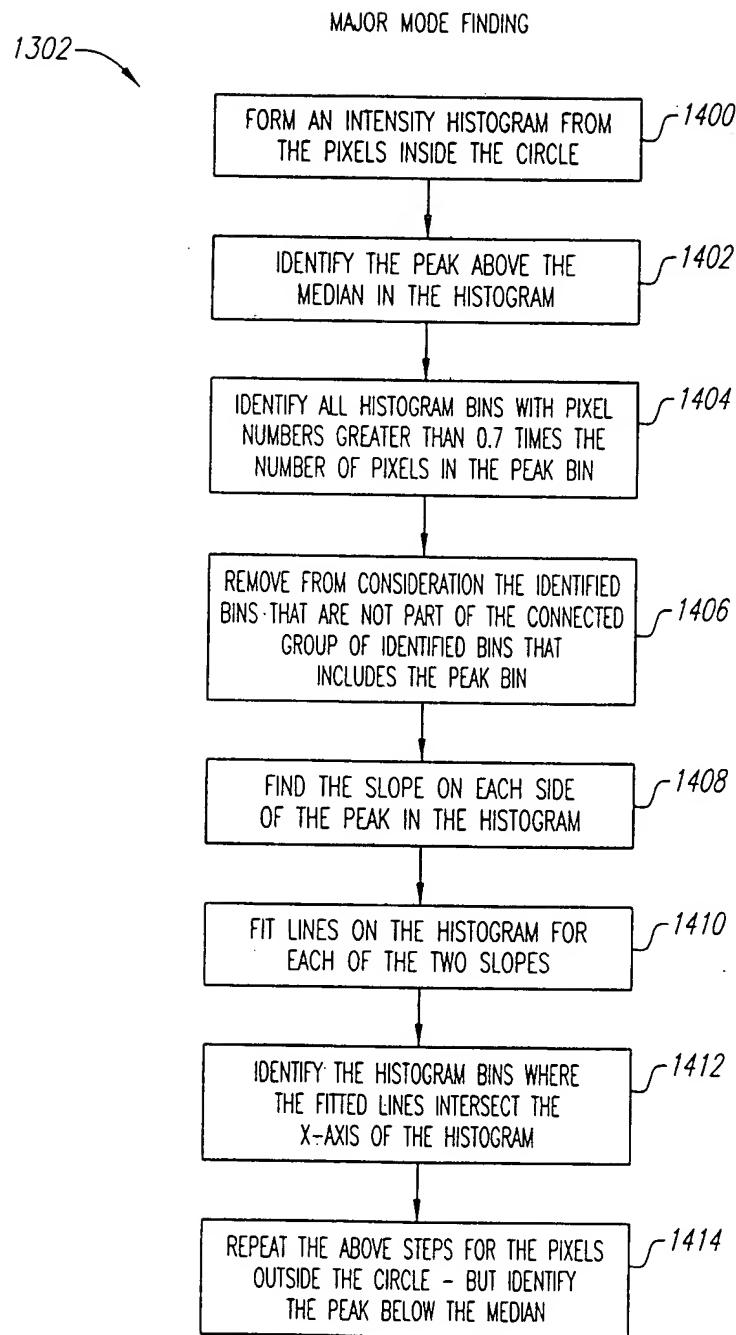


FIG. 14

SIGNAL HISTOGRAM

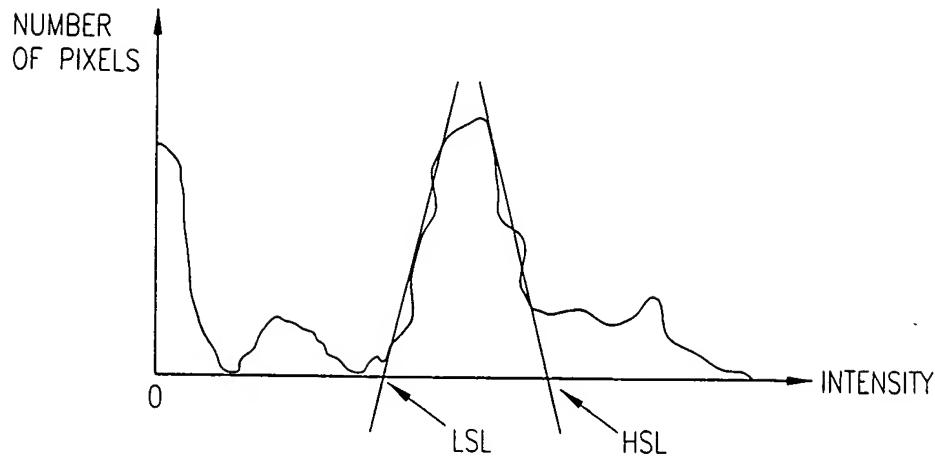


FIG. 15A

BACKGROUND HISTOGRAM

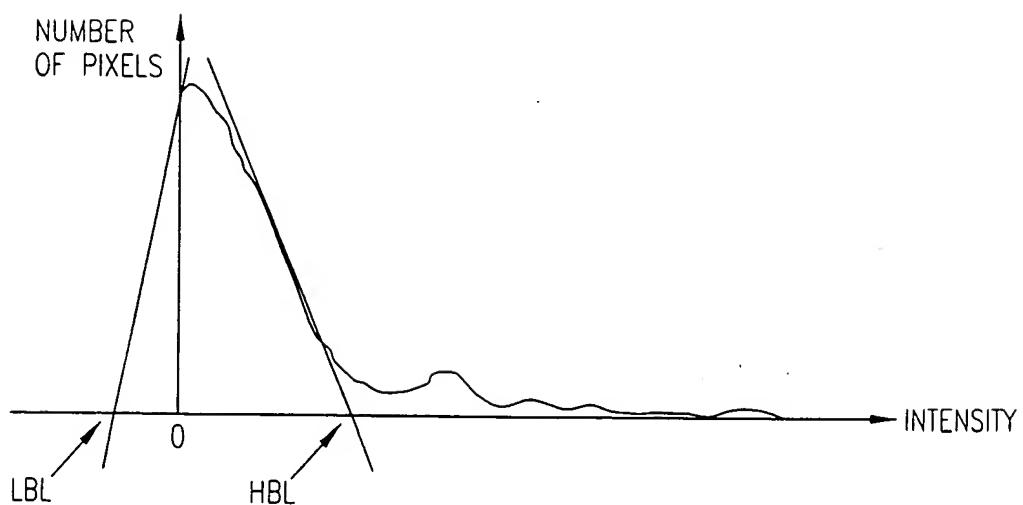
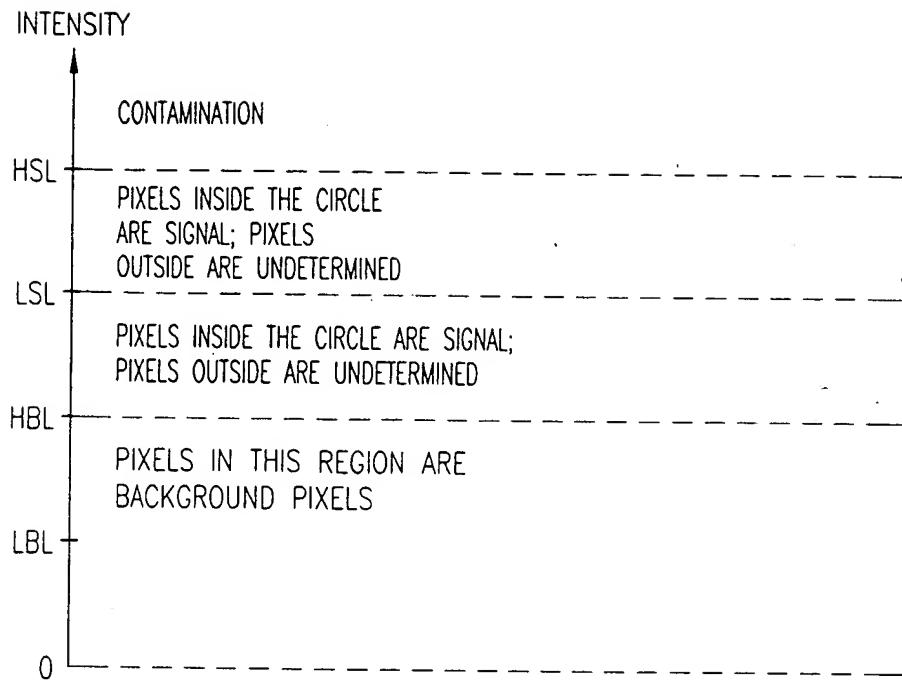
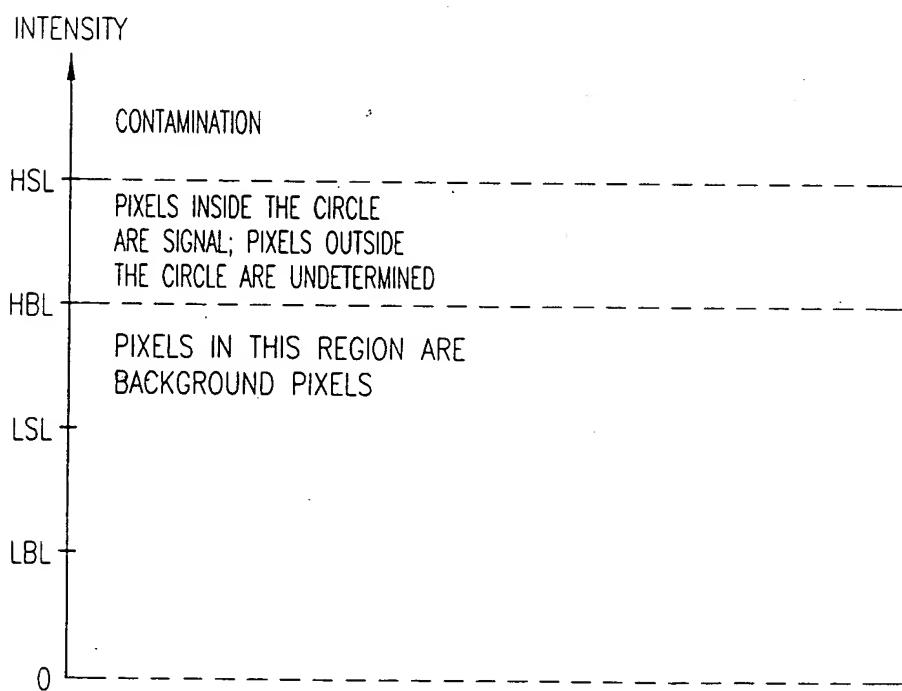
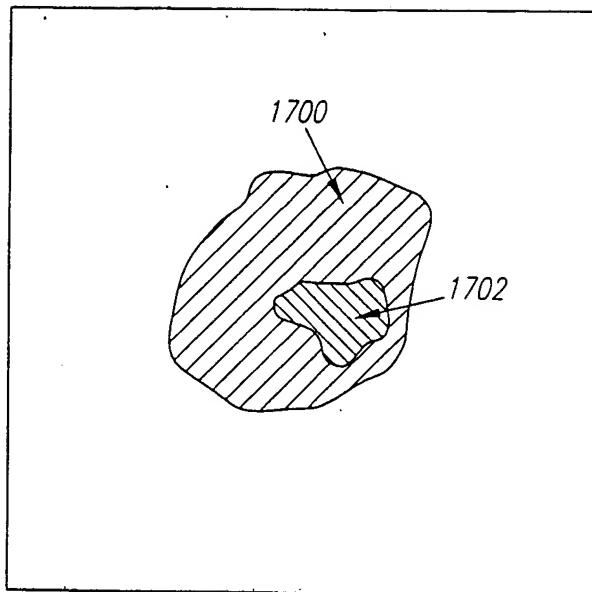


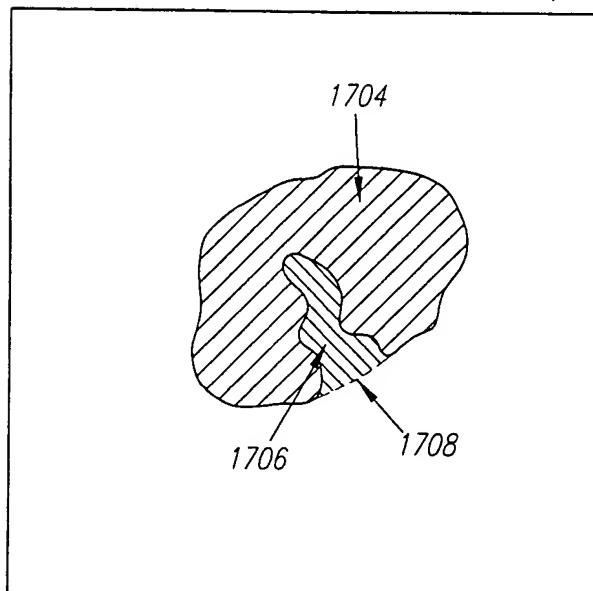
FIG. 15B

*FIG. 16A**FIG. 16B*

BDI-01952.000



*FIG. 17A*



*FIG. 17B*